

Serial No. 09/411,568  
STN SEARCH

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FILE 'HOME' ENTERED AT 10:10:39 ON 12 DEC 2000

=> help file

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=> help

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=> file

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FULL ESTIMATED COST 0.45 0.45  
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FILE COVERS 1967 - 12 Dec 2000 VOL 133 ISS 25  
FILE LAST UPDATED: 11 Dec 2000 (20001211/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Serial No. 09/411,568  
STN SEARCH

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CAPLUS on STN.

=> s (itr or (internal (w) tandem (w) repeat#))/bi,ab

385 ITR/BI  
319 ITR/AB  
235311 INTERNAL/BI  
209767 INTERNAL/AB  
27102 TANDEM/BI  
23200 TANDEM/AB  
48590 REPEAT#/BI  
44412 REPEAT#/AB  
14 INTERNAL (W) TANDEM (W) REPEAT#  
L1 398 (ITR OR (INTERNAL (W) TANDEM (W) REPEAT#))/BI,AB

=> s ((anti (w) sense) or antisense)/bi,ab

223038 ANTI/BI  
187535 ANTI/AB  
20686 SENSE/BI  
19836 SENSE/AB  
849 ANTI (W) SENSE  
17671 ANTISENSE/BI  
14720 ANTISENSE/AB  
L2 18196 ((ANTI (W) SENSE) OR ANTISENSE)/BI,AB

=> s l1 and l2

L3 5 L1 AND L2

=> s ribozyme#/bi,ab

4477 RIBOZYME#/BI  
3235 RIBOZYME#/AB  
L4 4477 RIBOZYME#/BI,AB

=> s l3 and l4

L5 2 L3 AND L4

=> d l3 1-5 bib ab

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2000 ACS  
AN 1999:795943 CAPLUS  
DN 132:45813  
TI Generation of recombinant adeno-associated virus vectors without formation of wild-type virus  
IN Srivastava, Arun; Wang, Xu-Shan; Ponnazhagan, Selvarangan PA Advanced Research and Technology Institute, USA  
SO PCT Int. Appl., 100 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9964569 A1 19991216 WO 1999-US13070 19990609 W:  
AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
AU 9945587 A1 19991230 AU 1999-45587 19990609 PRAI US 1998-88714 19980610  
WO 1999-US13070 19990609

AB A plasmid co-transfection system for the generation of recombinant adeno-assocd. virus 2 for use as a gene delivery virus that minimizes the generation of wild-type virus by preventing homologous recombination is described. Recombination is dependent upon 10 nucleotides of the viral D-sequence and helper vectors lacking sequence homol. in the D-sequence and helper plasmids lacking adenovirus inverted terminal repeats. Methods and compns. for the use of recombinant AAV plasmids and helper vectors lacking homol. in the D-sequence, and helper plasmids lacking the adenovirus ITRs for use in gene therapy are described. Mapping of recombination events leading to the generation of wild-type virus found most of them clustering in the 10 distal nucleotides of the D-sequence and also involved the inverted terminal repeats of the adenovirus 5 helper. Deletion of selected sequences gradually lowered the titer of wild-type virus to <0.1% of total virus.

RE.CNT 6

RE

- (1) Qing; Journal of Virology 1998, V72(2), P1593 CAPLUS
- (2) Wang; Journal of Molecular Biology 1995, V250, P573 CAPLUS (3) Wang; Journal of Virology 1996, V70(3), P1668 CAPLUS
- (4) Wang; Journal of Virology 1997, V71(2), P1140 CAPLUS
- (5) Wang; Journal of Virology 1997, V71(4), P3077 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2000 ACS  
AN 1999:244775 CAPLUS  
DN 130:292438  
TI Chimeric AAV/B19 parvovirus-based recombinant vector system specifically targeting the erythroid lineage  
IN Srivastava, Arun; Ponnazhagan, Selvarangan PA Advanced Research and Technology Institute, USA  
SO PCT Int. Appl., 76 pp.  
CODEN: PIXXD2  
DT Patent

Serial No. 09/411,568  
STN SEARCH

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9918227 A1 19990415 WO 1998-US21202 19981008 W:

AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN,  
CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU,  
ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,  
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,  
UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE,  
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,  
NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML,  
MR, NE, SN, TD, TG

AU 9912696 A1 19990427 AU 1999-12696 19981008 EP  
1027451 A1 20000816 EP 1998-956097 19981008 R: AT, BE,  
CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
PT, IE, FI

PRAI US 1997-61364 19971008

WO 1998-US21202 19981008

AB The present invention relates to the engineering,  
propagation and use of chimeric parvovirus vectors  
using sequences from adeno-assocd. virus (AAV) and B19  
virus, which may be used to deliver genes to various  
target cells, including those of erythroid lineage.  
The system exploits the unique features of AAV and B19  
such that it does not suffer from toxicity,  
oncogenicity, or immunogenicity concerns. Heterologous  
DNA sequences are cloned withing the inverted terminal  
repeats ( ITR ) of AAV, without the presence of any  
AAV structural genes, and subsequently packaged inside  
the capsid structure of B19. Such a chimeric vector is  
achieved by creating a helper plasmid consisting of  
the rep gene of AAV, and the cap gene of B19. High  
titers of the vector may be generated, facilitating in  
vivo therapy. It is designed to specifically target  
primitive progenitor and differentiated cells of  
erythroid lineage, and can achieve stable integration  
and expression of transduced genes. RE.CNT 11  
RE

(1) Childrens Hospital Inc; WO 9534670 A 1995 CAPLUS

(2) Latta, M; WO 9523867 A 1995 CAPLUS

(4) Ponnazhagan, S; Blood, Meeting Info: 39th Annual  
Meeting of the American Society of Hematology 1997  
CAPLUS

(5) Ponnazhagan, S; J Virology 1998, V72(6), P5224  
CAPLUS

(7) RES Corp Technologies Inc; WO 9309239 A 1993  
CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2000 ACS

AN 1998:303188 CAPLUS

DN 129:77198

TI Site-specific integration in mammalian cells  
mediated by a new hybrid baculovirus-adeno-associated  
virus vector

AU Palombo, Fabio; Monciotti, Andrea; Recchia,  
Alessandra; Cortese, Riccardo; Ciliberto, Gennaro; La  
Monica, Nicola

CS IRBM P. Angeletti, Pomezia, 00040, Italy

SO J. Virol. (1998), 72(6), 5025-5034

CODEN: JOVIAM; ISSN: 0022-538X

PB American Society for Microbiology

DT Journal

LA English

AB Baculovirus can transiently transduce primary human  
and rat hepatocytes, as well as a subset of stable  
cell lines. To prolong transgene expression, we have  
developed new hybrid vectors which assoc. key elements  
from adeno-assocd. virus (AAV) with the elevated  
transducing capacity of baculovirus. The hybrid  
vectors contain a transgene cassette composed of the  
.beta.-galactosidase (.beta.-Gal) reporter gene and  
the hygromycin resistance (Hygr) gene flanked by the  
AAV inverted terminal repeats (ITRs), which are  
necessary for AAV replication and integration in the  
host genome. Constructs were derived both with and  
without the AAV rep gene under the p5 and p19  
promoters cloned in different positions with respect  
to the baculovirus polyhedrin promoter. A high-titer  
prepn. of baculovirus-AAV (Bac-AAV) chimeric virus  
contg. the ITR -Hygr-.beta.-Gal sequence was obtained  
with insect cells only when the rep gene was placed in  
an antisense orientation to the polyhedrin promoter.  
Infection of 293 cells with Bac-AAV virus expressing  
the rep gene results in a 10-to 50-fold increase in  
the no. of Hygr stable cell clones. Addnl., rep  
expression detd. the localization of the transgene  
cassette in the aavsl site in approx. 41% of cases as  
detected by both Southern blotting and fluorescent in  
situ hybridization anal. Moreover, site-specific  
integration of the ITR -flanked DNA was also detected  
by PCR amplification of the ITR -aavsl junction in  
transduced human fibro-blasts. These data indicate  
that Bac-AAV hybrid vectors can allow permanent,  
nontoxic gene delivery of DNA constructs for ex vivo  
treatment of primary human cells.

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2000 ACS

AN 1998:169418 CAPLUS

DN 128:227084

TI Methods and compositions for liver-specific  
delivery of therapeutic molecules using recombinant  
adeno-associated virus vectors IN Srivastava, Aron;  
Ponnazhagan, Selvarangan; Chloemer, Robert H.; Wang,  
Xu-Shan; Yoder, Mervin C.; Zhou, Shang-Zhen; Escobedo,  
Jaime; Dwarkil, Varavani

PA Chiron Corporation, USA; Indiana University

SO PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

Serial No. 09/411,568  
STN SEARCH

PI WO 9809524 A1 19980312 WO 1997-US15453 19970902 W:  
CA, JP

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT,  
LU, MC, NL, PT, SE EP 933997 A1 19990811 EP  
1997-940762 19970902 R: AT, BE, CH, DE, DK, ES, FR,  
GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  
PRAI US 1996-25616 19960906

US 1996-25649 19960911

WO 1997-US15453 19970902

AB Provided are methods for selectively expressing  
therapeutic mols., such as secretory proteins,  
antisense mols. and ribozymes, in the liver. The  
methods find use in treating hepatic diseases or  
conditions. The methods also find use in treating any  
disease or condition in which systemic administration  
of the therapeutic substance, for example, a secretory  
protein, is desired. The methods involve administering  
to a mammalian patient having a need for liver  
expression of a therapeutic mol. an AAV vector contg.  
a therapeutically effective amt. of the therapeutic  
mol. Also provided are novel vectors employable in  
these methods. Expts. revealed that, following i.v.  
injection of AAV vectors into mice, the AAV genomes  
were found predominantly in the liver. The  
heterologous genes carried by these vectors (chimeric  
cytomegalovirus promoter-lacZ or .beta.-globin  
promoter-globin genes) were expressed in the liver.  
Cotransfection of adenovirus 2-infected 293 cells with  
the AAV vectors and helper plasmid contg. cap and rep  
genes resulted in prodn. of 0.1-10% wild-type AAV.  
Replacement of the last 10 nucleotides of the ITR D  
sequence with unrelated nucleotides reduced this  
illegitimate recombination was reduced. Four  
recombinant AAV vectors (pD-5, pD-10, pD-15 and pD-20)  
with such modified ITR regions were prepd.  
L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2000 ACS

AN 1995:951301 CAPLUS

DN 123:332111

TI Integrative adenovirus expression vectors for use  
in gene therapy IN Deneffe, Patrice; Latta, Martine;  
Perricaudet, Michel; Vigne, Emmanuelle PA  
Rhône-Poulenc Rorer S.A., Fr.

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9523867 A1 19950908 WO 1995-FR233 19950228 W:

AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU,  
JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN,  
MW, MX, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA,  
US, UZ, VN

RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR,  
GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

FR 2716893 A1 19950908 FR 1994-2445 19940303 FR  
2716893 B1 19960412

CA 2184113 AA 19950908 CA 1995-2184113 19950228 AU  
9518526 A1 19950918 AU 1995-18526 19950228 EP 748385  
A1 19961218 EP 1995-910605 19950228 R: AT, BE, CH, DE,  
DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE JP  
09509578 T2 19970930 JP 1995-522730 19950228 ZA  
9501803 A 19960109 ZA 1995-1803 19950303 US 6033885 A  
20000307 US 1996-702573 19960912 PRAI FR 1994-2445  
19940303

WO 1995-FR233 19950228

AB Recombination-defective adenoviruses carrying a  
cassette that can be integrated into the genome of  
host cells are constructed for use in gene therapy.  
The cassette particularly contains at least one  
inverted terminal repeat ( ITR ) of an adeno-assocd.  
virus (AAV) and a therapeutic gene. The use of the AAV  
ITR directs integration to the same locus in all cases  
and minimizes possible complications from random  
integration. The construction of virus carrying the  
lacZ reporter gene or a human lipoprotein AI gene  
under control of viral (vesicular stomatitis or Rous  
sarcoma virus) promoters is described.

=> file ca

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 34.81 35.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE

TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -2.78 -2.78

FILE 'CA' ENTERED AT 10:14:10 ON 12 DEC 2000

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FILE COVERS 1967 - 7 Dec 2000 VOL 133 ISS 25

FILE LAST UPDATED: 7 Dec 2000 (20001207/ED)

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searching of all substance data from the REGISTRY  
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Now you can extend your author, patent assignee,  
patent information, and title searches back to 1907.  
The records from 1907-1966 now have this searchable  
data in CAOLD. You now have electronic access to all  
of CA: 1907 to 1966 in CAOLD and 1967 to the present  
in CA on STN.

=> s 15

374 ITR/BI

309 ITR/AB

Serial No. 09/411,568  
STN SEARCH

228219 INTERNAL/BI  
203130 INTERNAL/AB  
25935 TANDEM/BI  
22201 TANDEM/AB  
46369 REPEAT#/BI  
42301 REPEAT#/AB  
13 INTERNAL (W) TANDEM (W) REPEAT#  
215262 ANTI/BI  
180573 ANTI/AB  
19151 SENSE/BI  
18427 SENSE/AB  
813 ANTI (W) SENSE  
16873 ANTISENSE/BI  
14081 ANTISENSE/AB  
4250 RIBOZYME#/BI  
3054 RIBOZYME#/AB  
L6 2 L3 AND L4

=> log y

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION  
FULL ESTIMATED COST 22.70 57.96  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE  
TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -2.78  
STN INTERNATIONAL LOGOFF AT 10:14:25 ON 12 DEC 2000